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PTC/SB/01A (07-05)

Approved for use through 01/31/2007. OMB 0651-0032

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## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention IN VITRO METHOD FOR THE DIAGNOSIS OF CARDIOVASCULAR FUNCTIONALITY OF BONE MARROW-PRECURSOR CELLS (BMP) AND/OR CIRCULATION PRECURSOR CELLS DERIVED FROM BLOOD (BDP)				
As the below named inventor(s), tiwe declare that:				
This declaration is directed to:				
The attached application, or				
Application No. 10/574,380, filed on October 13, 2004,				
as amended on April 3, 2006 (if applicable);				
I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;				
I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;				
I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.				
WARNING:				
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.  All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.				
FULL NAME OF INVENTOR(S)				
Inventor one: Andreas M. Zeither				
Signature: Citizen of: DE				
Inventor two: Christophe? Heeschen				
Signature: Citizen of: DE				
Additional inventors or a legal representative are being named on 1 additional form(s) attached hereto.				

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case, any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND PEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1430, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/02A (07-06)
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Name of Additional Inventor, if any			A petition has been filed for this unsigned inventor		
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inventor's Signature			<u>· · · · · · · · · · · · · · · · · · · </u>		Date 16. Febr. 07
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leuiversity hospital Transfurt Ned. Clinic III - Nolecular Cardiology Theodor - Flory - Kay 7					
Mailing Address 3 - (6.510	Tankfurt				
City	State	ZIP		Cos	untry
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Inventor's Signature					Date
Residence: City	State	Cou	ntry		Citizenship
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Name of Additional Inventor, if any		☐ A polition has been filed for this unsigned inventor			
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Inventor's Signaluro		l			Date
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PTO/SB/81 (01-06)
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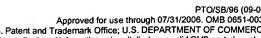
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## POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM

1	re required to respond to a collection of in	iomation unless it displays a valid OND control nutriber.
	Application Number	101574.380
	Filing Date	April 3, 2006
	First Named Inventor	Zeiher
	Title	IN VITRO METHOD FOR THE DIAGNOSIS OF CARDIOVASCULAR FUNCTIONALITY OF BONE MARROW PRECURSOR CELLS (B
	Art Unit	
	Examiner Name	
	Attorney Docket Number	To be assigned Curca 3

01111 2					
I hereby revoke all previous powers of attorney given in the above-identified application.					
I hereby ap	ppoint:				
☑ Practitioners associated with the Customer Number:			22504		
OR					
☐ Practitio	ner(s) nar		Business a		
ļ_		Name	Registration N	Number	
L					
as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.					
Please reco	ognize or	change the correspondence address for	or the above-identified applica	ation to:	
		ociated with the above-mentioned Cus			
OR ☐ The ac	idress ass	sociated with Customer Number:			
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Country					
Telephone			Email		
I am the:					
Applica	Applicant/Inventor.				
☐ Assign	Assignee of record of the entire interest. See 37 CFR 3.71.				
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)					
SIGNATURE of Applicant or Assignee of Record					
Signature	- (	Dr. 7. 11 with ha	Cun Date	May 11, 2006.	
Name		Pol. D. Mirren Bacity.	- Hohy Telephone 004	9/69/798-22732	
	Title and Company Vice - President, Frankfus University				
NOTE: Signatur	NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.				
*Total		forms are submitted.			

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of



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STATEMENT UNDER 37 CFR 3.73(b)				
Applicant/Patent Owner: University of Frankfurt				
Application No./Patent No.: 10/574,380	Filed/Issue Date: October 13, 2004			
	ARDIOVASCULAR FUNCTIONALITY OF BONE MARROW- CIRCULATING PRECURSOR CELLS (BDPs)			
University of Frankfurt a unive	rsity			
(Name of Assignee) (Type of A	ssignee, e.g., corporation, partnership, university, government agency, etc.)			
states that it is:				
1. X the assignee of the entire right, title, and intere	st; or			
2. an assignee of less than the entire right, title, a	and interest			
The extent (by percentage) of its ownership in the patent application/patent identified above by virtue of				
A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.				
OR				
B. A chain of title from the inventor(s), of the patent app shown below:	lication/patent identified above, to the current assignee as			
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2. From: To:,				
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3. From: To:				
The document was recorded in the United State				
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Additional documents in the chain of title are listed on a supplemental sheet.				
□ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignments or other documents in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are attached.     □ Copies of assignment in the chain of title are atta				
The undersigned whose title is supplied below) is authorized supplied below.	and to act on behalf of the assignee.			
	206-628-7621			
Printed or Typed Name	Telephone Number			
Barry L. Davison, Ph.D., J.D.  Attorney for Applicants				

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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Attorney Docket No.: 81197-2

Box Hist. 4, Munich, gernary 81247
ASSIGNMENT

WHEREAS, we, Andreas M. Zeiher residing at Deutschherrnufer 47, Frankfurt, Germany 60594; Christopher Heeschen residing at Woogstrasse 5, Frankfurt, Germany 60431; and Stefanie Dimmeler residing at Deutschherrnufer 47, Frankfurt, Germany 60594 (ASSIGNORS) are the inventors named in an application for a Letters Patent of the United States entitled IN VITRO METHOD FOR THE DIAGNOSIS OF CARDIOVASCULAR FUNCTIONALITY OF BONE MARROW PRECURSOR CELLS (BMP) AND/OR CIRCULATION PRECURSOR CELLS DERIVED FROM BLOOD (BDP), said application was nationalized in the United States from PCT/EP2004/011503 filed on October 13, 2004 as Application No. 10/574,380 and claims priority to DE10347436.6 filed October 13, 2003;

AND, WHEREAS, Frankfurt University, a university, having administrative offices Senckenberganlage 31, 60325 Frankfurt am Main, Germany (hereinafter referred to as ASSIGNEE) is desirous of acquiring the entire right, title and interest in the invention described in the said application;

NOW, THEREFORE, for sufficient, good and valuable consideration, the receipt of which is hereby acknowledged, we do hereby sell, assign, and transfer unto said ASSIGNEE, our entire right, title to and interest in said application and said inventions; any patent or reissues of any patent that may be granted thereon; and any applications which are improvements thereon, continuations, continuations-in-part, substitutes, or divisions of said applications, and all foreign applications and patents on said invention(s) to be held and enjoyed by ASSIGNEE as entirely as the same would have been held and enjoyed by us had this sale, assignment, and transfer not been made, and we do hereby further agree and promise to execute all instruments and render all such assistance as ASSIGNEE may request in order to make and prosecute any and all applications on said invention(s), to enforce any and all patents on said invention(s), and to confirm in ASSIGNEE legal title to said invention(s) and all applications and patents on said invention(s), all without charge to ASSIGNEE but at no expense to us.

Executed in Scattle, this Liel day of Octobe	, 2006 in _	Toalf.
Andreas M. Zeiher		·
Executed in Seattle, this 18th day of Sentember	2006 in _	Munich Sermony
Executed in Seattle, this The day of October	, 2006 in _	Frankfust.
Stefanie Duruncker		

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